

National Functional Guidelines Report #03

Lab MITKEM(Mitkem Laboratories) SDG MF2B70 Case 43795 Contract EPW09039 Region 6 DDTID 183663 SOW ISM01.3

Data Review Reports

Blanks

Blanks	ICP_AES
ND03	The following samples have analyte results greater than or equal to MDLs but less than CRQLs. The associated ICB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Detected analytes are qualified U. Nondetected analytes are not qualified. Sample results are elevated to CRQLs.
	PBW38, MF2C61
	Sodium PBW38
	Calcium PBW38
	Potassium MF2C61 , PBW38
	Magnesium MF2C61
Blanks	ICP_AES
ND04	The following samples have analyte results greater than or equal to MDLs but less than CRQLs. The associated CCB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Detected analytes are qualified U. Nondetected analytes are not qualified. Sample results are elevated at CRQLs.
	PBW38, MF2C61
	Sodium PBW38
	Calcium PBW38
	Potassium MF2C61 , PBW38
	Magnesium MF2C61
	Manganese MF2C61
Blanks	ICP_AES
ND05	The following samples have analyte results greater than CRQLs. The associated ICB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Use professional judgment to qualified detected and nondetected analytes.
	MF2B93, LCS38, MF2B70, MF2B73, MF2B73D, MF2B73L, MF2B76, MF2B82, MF2B85, MF2B87, MF2B89, MF2B91, MF2B73S
	Sodium MF2B93 , LCS38 , MF2B70 , MF2B73 , MF2B73D , MF2B73L , MF2B76 , MF2B82 , MF2B85 , MF2B87 , MF2B89 , MF2B91
	Calcium MF2B93 , LCS38 , MF2B70 , MF2B73 , MF2B73D , MF2B73L , MF2B76 , MF2B82 , MF2B85 , MF2B87 , MF2B89 , MF2B91
	Potassium MF2B93 , LCS38 , MF2B70 , MF2B73 , MF2B73D , MF2B73L , MF2B73S , MF2B76 , MF2B82 , MF2B85 , MF2B87 , MF2B89 , MF2B91
	Magnesium LCS38
Blanks	ICP_AES
ND06	The following samples have analyte results greater than CRQLs. The associated CCB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Use professional judgment to qualified detected and nondetected analytes.
	MF2B93, LCS38, MF2B70, MF2B73, MF2B73D, MF2B73L, MF2B76, MF2B82, MF2B85, MF2B87, MF2B89, MF2B91, MF2B73S
	Sodium MF2B93 , LCS38 , MF2B70 , MF2B73 , MF2B73D , MF2B73L , MF2B76 , MF2B82 , MF2B85 , MF2B87 , MF2B89 , MF2B91
	Calcium MF2B93 , LCS38 , MF2B70 , MF2B73 , MF2B73D , MF2B73L , MF2B76 , MF2B82 , MF2B85 , MF2B87 , MF2B89 , MF2B91

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Blanks

Blanks	ICP_AES
	Potassium MF2B93 , LCS38 , MF2B70 , MF2B73 , MF2B73D , MF2B73L , MF2B73S , MF2B76 , MF2B82 , MF2B85 , MF2B87 , MF2B89 , MF2B91
	Magnesium LCS38
	Manganese LCS38
Blanks	ICP_AES
NE05	The following samples have analyte results greater than CRQLs. The associated preparation blank analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Use professional judgment to qualify detected and nondetected analytes.
	MF2B93, LCS38, MF2B70, MF2B73, MF2B73D, MF2B73L, MF2B76, MF2B82, MF2B85, MF2B87, MF2B89, MF2B91, MF2B73S
	Calcium MF2B93 , LCS38 , MF2B70 , MF2B73 , MF2B73D , MF2B73L , MF2B76 , MF2B82 , MF2B85 , MF2B87 , MF2B89 , MF2B91
	Potassium MF2B93 , LCS38 , MF2B70 , MF2B73 , MF2B73D , MF2B73L , MF2B73S , MF2B76 , MF2B82 , MF2B85 , MF2B87 , MF2B89 , MF2B91

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Blanks

Blanks	ICP_MS
ND03	The following samples have analyte results greater than or equal to MDLs but less than CRQLs. The associated ICB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Detected analytes are qualified U. Nondetected analytes are not qualified. Sample results are elevated to CRQLs.
	MF2B70, MF2B91, MF2B93, MF2C61, MF2B82, PBW37, MF2B85, MF2B73, MF2B73S, MF2B87, MF2B89, MF2B76, MF2B73D
	Vanadium MF2B70, MF2B91, MF2B93, MF2C61, MF2B82, PBW37, MF2B85
	Arsenic MF2B73, MF2B73S, MF2C61, MF2B82, MF2B87, MF2B89
	Chromium MF2B91, MF2B93, MF2C61, MF2B76, MF2B82, PBW37, MF2B87, MF2B89
	Cobalt MF2C61, PBW37
	Barium MF2B70, MF2B73, MF2B73D, MF2B93, MF2C61, MF2B76, MF2B82, PBW37, MF2B85, MF2B87, MF2B89, MF2B91
	Beryllium MF2B73S, PBW37
	Antimony MF2B73S, MF2C61, PBW37
	Thallium MF2B73S, PBW37
	Cadmium MF2B73S
	Lead MF2B93, MF2B73S, MF2C61, MF2B82, PBW37
Blanks	ICP_MS
ND04	The following samples have analyte results greater than or equal to MDLs but less than CRQLs. The associated CCB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Detected analytes are qualified U. Nondetected analytes are not qualified. Sample results are elevated at CRQLs.
	MF2B70, MF2B91, MF2B93, MF2C61, MF2B82, PBW37, MF2B85, MF2B76, MF2B87, MF2B89, MF2B73, MF2B73D, MF2B73S
	Vanadium MF2B70, MF2B91, MF2B93, MF2C61, MF2B82, PBW37, MF2B85
	Chromium MF2B91, MF2B93, MF2C61, MF2B76, MF2B82, PBW37, MF2B87, MF2B89
	Cobalt MF2C61, PBW37
	Barium MF2B70, MF2B73, MF2B91, MF2B73D, MF2B93, MF2C61, MF2B76, MF2B82, PBW37, MF2B85, MF2B87, MF2B89
	Beryllium MF2B73S, PBW37
	Antimony MF2B73S, MF2C61, PBW37
	Thallium MF2B73S, PBW37
	Cadmium MF2B73S
	Silver MF2B73S
	Lead MF2B93, MF2B73S, MF2C61, MF2B82, PBW37
Blanks	ICP_MS
ND05	The following samples have analyte results greater than CRQLs. The associated ICB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Use professional

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Blanks

Blanks	ICP_MS
	judgment to qualified detected and nondetected analytes.
	LCS37, MF2B73S, MF2B73A
	Vanadium LCS37 , MF2B73S
	Arsenic LCS37 , MF2B73A
	Chromium LCS37 , MF2B73S
	Cobalt LCS37 , MF2B73S
	Barium LCS37 , MF2B73A , MF2B73S
	Beryllium LCS37
	Antimony LCS37
	Thallium LCS37
	Cadmium LCS37
	Lead LCS37
Blanks	ICP_MS
ND06	The following samples have analyte results greater than CRQLs. The associated CCB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Use professional judgment to qualified detected and nondetected analytes.
	LCS37, MF2B70, MF2B91, MF2B93, MF2B73S, MF2B82, MF2B85, MF2B76, MF2B87, MF2B89, MF2B73, MF2B73A, MF2B73D
	Vanadium LCS37 , MF2B70 , MF2B91 , MF2B93 , MF2B73S , MF2B82 , MF2B85
	Chromium LCS37 , MF2B91 , MF2B93 , MF2B73S , MF2B76 , MF2B82 , MF2B87 , MF2B89
	Cobalt LCS37 , MF2B73S
	Barium LCS37 , MF2B70 , MF2B73 , MF2B91 , MF2B73A , MF2B73D , MF2B73S , MF2B93 , MF2B76 , MF2B82 , MF2B85 , MF2B87 , MF2B89
	Beryllium LCS37 , MF2B73S
	Antimony LCS37 , MF2B73S
	Thallium LCS37 , MF2B73S
	Cadmium LCS37 , MF2B73S
	Silver LCS37 , MF2B73S
	Lead LCS37 , MF2B93 , MF2B73S , MF2B82
Blanks	ICP_MS
NE04	The following samples have analyte results greater than or equal to MDLs but less than or equal to CRQLs. The associated preparation blank analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Detected analytes are qualified U. Nondetected analytes are not qualified. Sample results are elevated to CRQLs.

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Blanks

Blanks	ICP_MS
	MF2B91, MF2B93, MF2B76, MF2B82, MF2B87, MF2B89, MF2B70, MF2B73, MF2B73D, MF2B85, MF2B73S
	Chromium MF2B91 , MF2B93 , MF2B76 , MF2B82 , MF2B87 , MF2B89
	Barium MF2B70 , MF2B73 , MF2B73D , MF2B91 , MF2B93 , MF2B76 , MF2B82 , MF2B85 , MF2B87 , MF2B89
	Beryllium MF2B73S
	Antimony MF2B73S
	Thallium MF2B73S
	Lead MF2B73S , MF2B93 , MF2B82
Blanks	ICP_MS
NE05	The following samples have analyte results greater than CRQLs. The associated preparation blank analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Use professional judgment to qualify detected and nondetected analytes.
	LCS37, MF2B73S, MF2B73A
	Vanadium LCS37 , MF2B73S
	Chromium LCS37 , MF2B73S
	Cobalt LCS37 , MF2B73S
	Barium LCS37 , MF2B73A , MF2B73S
	Beryllium LCS37
	Antimony LCS37
	Thallium LCS37
	Lead LCS37

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Detection Limit

Detection Limit	ICP_AES
NDL1	The following samples have results greater than or equal to MDLs but less than CRQLs. Detected analytes are qualified J.
	PBW38, MF2B87, MF2B91, MF2C61, MF2B70, MF2B73, MF2B73D, MF2B76, MF2B82, MF2B85
	Sodium PBW38
	Calcium PBW38
	Aluminum MF2B87 , MF2B91
	Potassium MF2C61 , PBW38
	Magnesium MF2C61
	Manganese MF2C61 , MF2B70 , MF2B73 , MF2B73D , MF2B76 , MF2B82 , MF2B85

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Detection Limit

Detection Limit	ICP_MS
NDL1	The following samples have results greater than or equal to MDLs but less than CRQLs. Detected analytes are qualified J.
	MF2B70, MF2B91, MF2B93, MF2C61, PBW37, MF2B82, MF2B85, MF2B73, MF2B73S, MF2B87, MF2B89, MF2B76, MF2B73D, MF2B73L
	Vanadium MF2B70, MF2B91, MF2B93, MF2C61, PBW37, MF2B82, MF2B85
	Arsenic MF2B73, MF2B73S, MF2C61, MF2B82, MF2B87, MF2B89
	Chromium MF2B91, MF2B93, MF2C61, MF2B76, PBW37, MF2B82, MF2B87, MF2B89
	Copper MF2B70, MF2B73, MF2B73D, MF2B91, MF2B93, MF2B76, MF2B82, MF2B85, MF2B87, MF2B89
	Lead MF2B73S, MF2B93, MF2C61, PBW37, MF2B82
	Selenium MF2B70, MF2B73, MF2B73D, MF2B91, MF2B73S, MF2B93, MF2B76, MF2B82, MF2B85, MF2B87, MF2B89
	Cobalt MF2C61, PBW37
	Barium MF2B70, MF2B73, MF2B73D, MF2B91, MF2B93, MF2C61, MF2B76, PBW37, MF2B82, MF2B85, MF2B87, MF2B89
	Zinc MF2B73D, MF2B73L, MF2B91, MF2B93
	Beryllium MF2B73S, PBW37
	Antimony MF2B73S, MF2C61, PBW37
	Thallium MF2B73S, PBW37
	Cadmium MF2B73S
	Silver MF2B73S

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Holding Times/Preservation

Holding Times/Preservation	Hg
NHT01	The following preserved samples are improperly maintained at temperatures outside the range of 4+/-2 C. Detected analytes with results greater than or equal to MDLs are qualified J-. Use professional judgment to qualify the nondetected analytes.
	MF2B70, MF2B73, MF2B73D, MF2B73S, MF2B76, MF2B82, MF2B85, MF2B87, MF2B89, MF2B91, MF2B93, MF2C61

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Holding Times/Preservation

Holding Times/Preservation	ICP_AES
NHT01	The following preserved samples are improperly maintained at temperatures outside the range of 4+/-2 C. Detected analytes with results greater than or equal to MDLs are qualified J-. Use professional judgment to qualify the nondetected analytes.
	MF2C61, MF2B70, MF2B73, MF2B73D, MF2B73L, MF2B73S, MF2B76, MF2B82, MF2B85, MF2B87, MF2B89, MF2B91, MF2B93

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Holding Times/Preservation

Holding Times/Preservation	ICP_MS
NHT01	The following preserved samples are improperly maintained at temperatures outside the range of 4+/-2 C. Detected analytes with results greater than or equal to MDLs are qualified J-. Use professional judgment to qualify the nondetected analytes.
	MF2B70, MF2B73, MF2B73A, MF2B73D, MF2B73L, MF2B73S, MF2B93, MF2C61, MF2B76, MF2B82, MF2B85, MF2B87, MF2B89, MF2B91

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Matrix Spikes

Matrix Spikes	Hg
NG090	The following Matrix Spike samples have percent recoveries in the range of 30-74%. Detected analytes with results greater than or equal to MDLs are qualified J-. Nondetected analytes are qualified UJ.
	MF2B70, MF2B73, MF2B76, MF2B82, MF2B85, MF2B87, MF2B89, MF2B91, MF2B93
	Mercury MF2B73S

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Matrix Spikes

Matrix Spikes	ICP_MS
NG11	The following Matrix Spike samples have percent recoveries in the range of 30-74% and post-digestion spike samples have percent recoveries greater than or equal to 75%. Detected analytes with results greater than or equal to MDLs are qualified J. Nondetected analytes are qualified UJ.
	MF2B70, MF2B73, MF2B76, MF2B82, MF2B85, MF2B87, MF2B89, MF2B91, MF2B93
	Arsenic MF2B73S
	Barium MF2B73S
Matrix Spikes	ICP_MS
NG14	The following Matrix Spike samples have percent recoveries greater than 125% and post-digestion spike samples have percent recoveries less than or equal to 125%. Detected analytes with results greater than or equal to MDLs are qualified J. Nondetected analytes are not qualified.
	MF2B70, MF2B73, MF2B76, MF2B82, MF2B85, MF2B87, MF2B89, MF2B91, MF2B93
	Selenium MF2B73S

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Serial Dilution

Serial Dilution	ICP_AES
NL031	The following ICP-AES Serial Dilution (SD) samples have percent difference (%D) greater than 10% and initial sample results are greater than 50xMDLs. The detected analytes in samples with results greater than or equal to MDLs are qualified J. Nondetected analytes in samples are qualified UJ.
	MF2B70, MF2B73, MF2B76, MF2B82, MF2B85, MF2B87, MF2B89, MF2B91, MF2B93
	Potassium MF2B73L